

1999-2000 Combined SWP & CVP AFRP Impacts. and Potential Recovery Options.

Hydrology Exceedence: 50% WY 1999 & 90% WY 2000.

This chart indicates the timing, magnitude and summary of the impacts associated with implementation of AFRP delta actions 1,3,5,7. The following uses of operational flexibility and "tools" could be used to minimize and redistribute these impacts:

- 1) Implementation of Joint Point of Diversion during October, November and December.
- 2) Additional CVP reservoir releases to move export impacts upstream.
- 3) Reduction of upstream AFRP releases in January through March to recover storage withdrawal impacts.
- 4) Relaxation of the E/I ratio and minimum outflow standard during June.
- 5) Relaxation of M&I water quality and minimum outflow standards during Oct., Nov. and Dec.
- 6) Purchase upstream water that can provide additional instream flows, delta outflow and/or export.
- 7) Purchase south of the delta water that can provide reduction in export demand.
- 8) Reduce the implementation of Delta AFRP Actions (1,3).

	APR 15-30	MAY 1-14	MAY 15-31	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	Impact Summary	
														Exports	Storage
Vernalis (CFS)	7400	6950	3850												
Exports (CFS)	3000	3000	5100												
Export Impacts (TAF)	-87 ¹	-62 ¹												-149	
Export recovery (TAF)								+11						+11	
Shasta storage withdrawal (TAF)				-5 ³											-5
Shasta storage recovery (TAF)											+0	+0	+0		0
Oroville storage withdrawal (TAF)				-8 ³		-20 ⁴	-21 ⁴	-11							-60
Oroville storage recovery (TAF)	+10 ²	+55 ²													65
														Total	
														-138	0
Cumulative Impacts (TAF)	-77	-84	-84	-97	-97	-117	-138	-138	-138	-138	-138	-138	-138		

¹ Export Impact from AFRP action 1, Implementation of VAMP.

² Storage recovery because of re-operation of San Joaquin River flows.

³ Storage withdrawal for implementation of AFRP action 3, Additional X2 days.

⁴ Storage withdrawal required because of re-operation of San Joaquin River flows.

October 14, 1998